

(19) World Intellectual Property
Organization
International Bureau



553711

(43) International Publication Date
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number
WO 2004/092677 A1

(51) International Patent Classification⁷: **G01B 11/02**,
G01N 9/00

(21) International Application Number:
PCT/AU2004/000505

(22) International Filing Date: 16 April 2004 (16.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003901910 17 April 2003 (17.04.2003) AU

(71) Applicant (for all designated States except US): **COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION** [AU/AU]; Limestone Avenue, Campbell, Australian Capital Territory 2612 (AU).

(72) Inventors; and

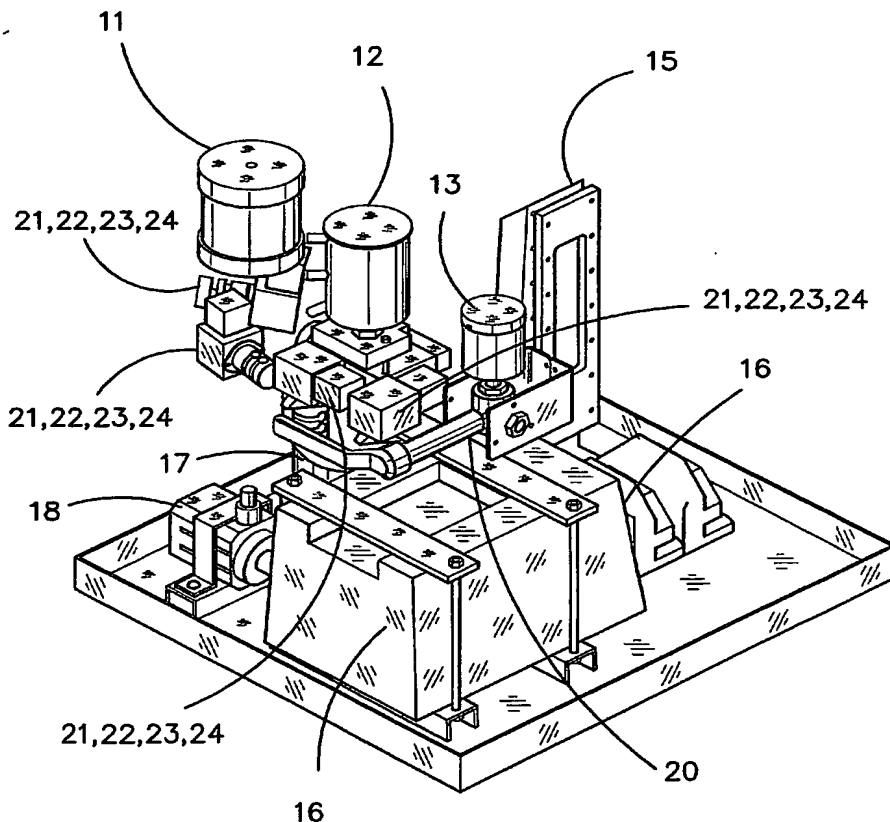
(75) Inventors/Applicants (for US only): **NAYLOR, Geoffrey Robert Stewart** [AU/AU]; 85 Lake Avenue, Ocean Grove, Victoria 3226 (AU). **PURMALIS, Mark Michael** [AU/AU]; 63 William Street, St Albans, Victoria 3021 (AU).

(74) Agent: **GRIFFITH HACK**; 509 St Kilda Road, MELBOURNE, Victoria 3004 (AU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR TESTING FIBRES



(57) Abstract: According to the present invention there is also provided an apparatus for estimating the fibre fineness of a known mass of fibres, the apparatus including: an image capturing device for capturing either i) all of the fibres selected for testing or ii) a fraction thereof, in one or more images; a computer capable of automatically determining the total length of fibre or fibres in the or each image; and a means for estimating the fibre fineness of the fibres using the total fibre length in the image(s).

WO 2004/092677 A1



(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.